



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Margit Burmeister

Serial No.: 10/699,941

Group No.: 1645

Filed: 11/03/03

Examiner:

Entitled: **Ataxia Associated Gene and Protein**

CERTIFICATE RE: SEQUENCE LISTING

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

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Dated: March 30, 2004

By:

Susan M. McClintock

Susan M. McClintock

Sir or Madam:

I hereby state that the enclosed Sequence Listing is being submitted in paper copy and on a computer-readable diskette, and that the content of the paper and computer readable copies are the same.

Dated: March 30, 2004

By:

Tanya A. Arenson

Tanya A. Arenson

Registration No. 47,391

MEDLEN & CARROLL, LLP

101 Howard Street, Suite 350

San Francisco, California 94105

608/218-6900



SEQUENCE LISTING

<110> Burmeister, Margit

<120> Ataxia Associated Gene and Protein

<130> UM-08441

<140> 10/699,941

<141> 2003-11-03

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<170> PatentIn version 3.2

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Ser Asp Asp Phe Leu Asp Thr Pro Asp Asp Leu Asp Ile Asn Val Asp
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Pro Ser Trp Phe Ile Arg Thr Val Leu Ala Ile Ser Arg Pro Phe Ile
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Ser Val Lys Phe Ile Asn Lys Ile Gln Tyr Val His Ser Leu Glu Asp
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Leu Glu Gln Leu Ile Pro Met Glu His Val Gln Ile Pro Asp Cys Val
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Leu Gln Tyr Glu Glu Glu Arg Leu Lys Ala Arg Arg Glu Ser Ala Arg
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Asn Thr Leu Asn Phe Asn Gly Ala His Arg Lys Arg Lys Thr Leu Val
 50 55 60

Ala Pro Asp Ile Asn Ile Ser Leu Asp Gln Ser Glu Gly Ser Leu Leu
 65 70 75 80

Ser Asp Asp Phe Leu Asp Thr Pro Asp Asp Leu Asp Ile Asn Val Asp
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Asp Ile Glu Thr Pro Asp Glu Thr Asp Ser Leu Glu Phe Leu Gly Asn
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Gly Asn Glu Leu Glu Trp Gly Asp Asp Thr Pro Val Ala Thr Ala Lys
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 Glu Gln Glu His Arg Ile Asp Leu His Met Ile Arg Pro Tyr Met Lys
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 Tyr Ile Met Glu Asn Leu Phe Leu Tyr Val Ile Ser Ser Leu Glu Leu
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Ser Thr Leu Asn Leu Ser Gly Ala His Arg Lys Arg Lys Thr Leu Val
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Gly Asn Glu Leu Glu Trp Glu Asp Asp Thr Pro Val Ala Thr Ala Lys
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Tyr Ile Met Glu Asn Leu Phe Leu Tyr Val Ile Ser Ser Leu Lys Leu
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Ser Val Lys Phe Ile Ser Lys Ile Gln Tyr Val His Ser Leu Glu Glu
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cctgtcggca ggcataccga ggtcaaacag ccggggccac cgttcccagc tggggccacga 59580
cctgcaccgt ccacagatgg gctttgagat ggatttgtat caggggtgggg ggtgtgggtt 59640
ggccaaaatg caatggaccc cgacccctcc tcgtaaaagg atgttgggtt tccctctggt 59700
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acgatgagtt ttgcggtttt tcagaacaga aatgatcact acgattgacg acggtcgtga 59820
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actg 59884

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<213> Artificial Sequence

<220>
<223> Synthetic

<400> 12
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<210> 13
<211> 21
<212> DNA
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<220>
<223> Synthetic

<400> 13
ggaggtgtga atcttatctt c 21

<210> 14
<211> 307
<212> PRT
<213> Homo sapiens

<400> 14

Met Gly Thr Thr Glu Ala Thr Leu Arg Met Glu Asn Val Asp Val Lys
1 5 10 15

Glu Glu Trp Gln Asp Glu Asp Leu Pro Arg Pro Leu Pro Glu Glu Thr
20 25 30

Gly Val Glu Leu Leu Gly Ser Pro Val Glu Asp Thr Ser Ser Pro Pro
35 40 45

Asn Thr Leu Asn Phe Asn Gly Ala His Arg Lys Arg Lys Thr Leu Val
50 55 60

Ala Pro Glu Ile Asn Ile Ser Leu Asp Gln Leu Asp Ile Asn Val Asp
 65 70 75 80

Asp Ile Glu Thr Pro Asp Glu Thr Asp Ser Leu Glu Phe Leu Gly Asn
 85 90 95

Gly Asn Glu Leu Glu Trp Glu Asp Asp Thr Pro Val Ala Thr Ala Lys
 100 105 110

Asn Met Pro Gly Asp Ser Ala Asp Leu Phe Gly Asp Gly Thr Thr Glu
 115 120 125

Asp Gly Ser Ala Ala Asn Gly Arg Leu Trp Arg Thr Val Ile Ile Gly
 130 135 140

Glu Gln Glu His Gly Gly Tyr Tyr Gly Glu Gly Leu Asn Ala Ile Ile
 145 150 155 160

Val Phe Ala Ala Cys Phe Leu Pro Asp Ser Ser Leu Pro Asp Tyr His
 165 170 175

Tyr Ile Met Glu Asn Leu Phe Leu Tyr Val Ile Ser Ser Leu Glu Leu
 180 185 190

Leu Val Ala Glu Asp Tyr Met Ile Val Tyr Leu Asn Gly Ala Thr Pro
 195 200 205

Arg Arg Arg Met Pro Gly Ile Gly Trp Leu Lys Lys Cys Tyr Val His
 210 215 220

Pro Ser Trp Phe Ile Arg Thr Val Leu Ala Ile Ser Arg Pro Phe Ile
 225 230 235 240

Ser Val Lys Phe Ile Asn Lys Ile Gln Tyr Val His Ser Leu Glu Asp
 245 250 255

Leu Glu Gln Leu Ile Pro Met Glu His Val Gln Ile Pro Asp Cys Val
 260 265 270

Leu Gln Tyr Glu Glu Glu Arg Leu Lys Ala Arg Arg Glu Ser Ala Arg
 275 280 285

Pro Gln Pro Glu Phe Val Leu Ala Leu Val Ser Glu Asp Gln Glu Thr
 290 295 300

Ser Met Ser
 305

<210> 15
 <211> 307
 <212> PRT
 <213> *Macaca fascicularis*

<400> 15

Met Gly Thr Thr Glu Ala Thr Leu Arg Met Glu Asn Val Asp Val Lys
 1 5 10 15

Glu Glu Trp Gln Asp Glu Asp Leu Pro Arg Pro Leu Pro Glu Glu Thr
 20 25 30

Gly Val Glu Leu Leu Gly Ser Pro Val Glu Asp Thr Ser Ser Pro Pro
 35 40 45

Asn Thr Leu Asn Phe Asn Gly Ala His Arg Lys Arg Lys Thr Leu Val
 50 55 60

Ala Pro Asp Ile Asn Ile Ser Leu Asp Gln Leu Asp Ile Asn Val Asp
 65 70 75 80

Asp Ile Glu Thr Pro Asp Glu Thr Asp Ser Leu Glu Phe Leu Gly Asn
 85 90 95

Gly Asn Glu Leu Glu Trp Gly Asp Asp Thr Pro Val Ala Thr Ala Lys
 100 105 110

Asn Met Pro Gly Asp Ser Ala Asp Leu Phe Gly Asp Gly Thr Thr Glu
 115 120 125

Asp Gly Ser Ala Ala Asn Gly Arg Leu Trp Arg Thr Val Ile Ile Gly
 130 135 140

Glu Gln Glu His Gly Gly Tyr Tyr Gly Glu Gly Leu Asn Ala Ile Ile
 145 150 155 160

Val Phe Ala Ala Cys Phe Leu Pro Asp Ser Ser Leu Pro Asp Tyr His
 165 170 175

Tyr Ile Met Glu Asn Leu Phe Leu Tyr Val Ile Ser Ser Leu Glu Leu
 180 185 190

Leu Val Ala Glu Asp Tyr Met Ile Val Tyr Leu Asn Gly Ala Thr Pro
 195 200 205

Arg Arg Arg Met Pro Gly Ile Gly Trp Leu Lys Lys Cys Tyr Val His
 210 215 220

Pro Ser Trp Phe Ile Arg Thr Val Leu Ala Ile Ser Arg Pro Phe Ile
 225 230 235 240

Ser Val Lys Phe Ile Asn Lys Ile Gln Tyr Val His Ser Leu Glu Asp
 245 250 255

Leu Glu Gln Leu Ile Pro Met Glu His Val Gln Ile Pro Asp Cys Val
 260 265 270

Leu Gln Tyr Glu Glu Glu Arg Leu Lys Ala Arg Arg Glu Ser Ala Arg
 275 280 285

Pro Gln Pro Glu Phe Val Met Ala Pro Val Thr Glu Asp Gln Glu Thr
 290 295 300

Ser Met Ser
 305

<210> 16
 <211> 308
 <212> PRT
 <213> Mus musculus
 <400> 16

Met Gly Thr Thr Glu Ala Thr Leu Arg Met Glu Asn Val Asp Val Arg
 1 5 10 15

Asp Glu Trp Gln Asp Glu Asp Leu Pro Arg Pro Leu Pro Glu Asp Thr
 20 25 30

Gly Val Glu Arg Leu Gly Gly Ala Val Glu Asp Ser Ser Ser Pro Pro
 35 40 45

Ser Thr Leu Asn Leu Ser Gly Ala His Arg Lys Arg Lys Thr Leu Val
 50 55 60

Ala Pro Glu Ile Asn Ile Ser Leu Asp Gln Leu Asp Ile Asn Val Asp
 65 70 75 80

Asp Ile Glu Thr Pro Asp Glu Thr Asp Ser Leu Glu Phe Leu Gly Asn
 85 90 95

Gly Asn Glu Leu Glu Trp Glu Asp Asp Thr Pro Val Ala Thr Ala Lys
 100 105 110

Asn Met Pro Gly Asp Ser Ala Asp Leu Phe Gly Asp Gly Ser Ala Glu
 115 120 125

Asp Gly Ser Ala Ala Asn Gly Arg Leu Trp Arg Thr Val Ile Ile Gly
 130 135 140

Glu Gln Glu His Gly Gly Tyr Tyr Gly Glu Gly Leu Asn Ala Ile Ile
 145 150 155 160

Val Phe Ala Ala Cys Phe Leu Pro Asp Ser Ser Ser Pro Asp Tyr His
 165 170 175

Tyr Ile Met Glu Asn Leu Phe Leu Tyr Val Ile Ser Ser Leu Glu Leu
 180 185 190

Leu Val Ala Glu Asp Tyr Met Ile Val Tyr Leu Asn Gly Ala Thr Pro
 195 200 205

Arg Arg Arg Met Pro Gly Ile Gly Trp Leu Lys Lys Cys Tyr Val His
 210 215 220

Pro Ser Trp Phe Ile Arg Thr Val Leu Ala Ile Ser Arg Pro Phe Ile
 225 230 235 240

Ser Val Lys Phe Ile Ser Lys Ile Gln Tyr Val His Ser Leu Glu Glu
 245 250 255

Leu Glu Arg Leu Ile Pro Met Glu His Val Gln Leu Pro Asp Cys Val
 260 265 270

Leu Gln Tyr Glu Glu Gln Arg Leu Arg Ala Lys Arg Glu Ser Thr Arg
 275 280 285

Pro Pro Gln Pro Glu Phe Leu Leu Ala Glu Ala Thr Glu Asp Gln Glu
 290 295 300

Thr Ser Met Ser
 305

<210> 17
 <211> 263
 <212> PRT
 <213> Homo sapiens

<400> 17

Glu Asp Val Gly Met Asp Ile Pro Phe Glu Glu Gly Val Leu Ser Pro
 1 5 10 15

Ser Ala Ala Asp Met Arg Pro Glu Pro Pro Asn Ser Leu Asp Leu Asn
 20 25 30

Asp Thr His Pro Arg Arg Ile Lys Leu Thr Ala Pro Asn Ile Asn Leu
 35 40 45

Ser Leu Asp Gln Ile Asp Ile Asn Val Asp Glu Leu Asp Thr Pro Asp
 50 55 60

Glu Ala Asp Ser Phe Glu Tyr Thr Gly His Glu Asp Pro Thr Ala Asn
 65 70 75 80

Lys Asp Ser Gly Gln Glu Ser Glu Ser Ile Pro Glu Tyr Thr Ala Glu
 85 90 95

Glu Glu Arg Glu Asp Asn Arg Leu Trp Arg Thr Val Val Ile Gly Glu
 100 105 110

Gln Glu Gln Gly Gly Tyr Tyr Gly Asp Gly Leu Asn Ala Ile Ile Val
 115 120 125

Phe Ala Ala Cys Phe Leu Pro Asp Ser Ser Arg Ala Asp Tyr His Tyr
 130 135 140

Val Met Glu Asn Leu Phe Leu Tyr Val Ile Ser Thr Leu Glu Leu Met
 145 150 155 160

Val Ala Glu Asp Tyr Met Ile Val Tyr Leu Asn Gly Ala Thr Pro Arg
 165 170 175

Arg Arg Met Pro Gly Leu Gly Trp Met Lys Lys Cys Tyr Val His Pro
 180 185 190

Ser Trp Phe Ile Arg Thr Ile Leu Ala Val Thr Arg Pro Phe Ile Ser
 195 200 205

Ser Lys Phe Ser Ser Lys Ile Lys Tyr Val Asn Ser Leu Ser Glu Leu
 210 215 220

Ser Gly Leu Ile Pro Met Asp Cys Ile His Ile Pro Glu Ser Ile Ile
 225 230 235 240

Lys Leu Asp Glu Glu Leu Arg Glu Ala Ser Glu Ala Ala Lys Thr Ser
 245 250 255

Cys Leu Tyr Asn Asp Pro Glu
 260

<210> 18
 <211> 259
 <212> PRT
 <213> Mus musculus

<400> 18

Met Asp Ile His Phe Glu Glu Gly Val Leu Ser Pro Ser Ala Ala Asp
 1 5 10 15

Met Arg Pro Glu Pro Pro Asn Ser Leu Asp Leu Asn Gly Ser His Pro
 20 25 30

Arg Arg Ile Lys Leu Thr Ala Pro Asn Ile Asn Leu Ser Leu Asp Gln
 35 40 45

Ile Asp Ile Asn Val Asp Glu Leu Asp Thr Pro Asp Glu Ala Asp Ser
 50 55 60

Phe Glu Tyr Thr Asn His Glu Asp Pro Thr Ala Asn Lys Ser Ser Gly
 65 70 75 80

Gln Glu Ser Glu Ser Ile Pro Glu Tyr Thr Ala Glu Glu Glu Arg Glu
 85 90 95

Asp Asn Arg Leu Trp Arg Thr Val Val Ile Gly Glu Gln Glu Gln Gly
 100 105 110

Gly Tyr Tyr Gly Asp Gly Leu Asn Ala Ile Ile Val Phe Ala Ala Cys
 115 120 125

Phe Leu Pro Asp Ser Ser Arg Ala Asp Tyr His Tyr Val Met Glu Asn
 130 135 140

Leu Phe Leu Tyr Val Ile Ser Thr Leu Glu Leu Met Val Ala Glu Asp
 145 150 155 160

Tyr Met Ile Val Tyr Leu Asn Gly Ala Thr Pro Arg Arg Arg Met Pro
 165 170 175

Gly Leu Gly Trp Met Lys Lys Cys Tyr Val His Pro Ser Trp Phe Ile
 180 185 190

Arg Thr Ile Leu Ala Val Thr Arg Pro Phe Ile Ser Ser Lys Phe Ser
 195 200 205

Ser Lys Ile Lys Tyr Val Thr Ser Leu Ser Glu Leu Ser Gly Leu Ile
 210 215 220

Pro Met Asp Cys Ile His Ile Pro Glu Ser Ile Ile Lys Leu Asp Glu
 225 230 235 240

Glu Leu Arg Glu Ala Ser Glu Ala Ala Lys Thr Ser Cys Leu Tyr Asn
 245 250 255

Asp Pro Glu

<210> 19
 <211> 263
 <212> PRT
 <213> Homo sapiens

<400> 19

Met Glu Gly Val Glu Leu Lys Glu Glu Trp Gln Asp Glu Asp Phe Pro
 1 5 10 15

Ile Pro Leu Pro Glu Asp Asp Ser Ile Glu Ala Asp Ile Leu Ala Ile
 20 25 30

Thr Gly Pro Glu Asp Gln Pro Gly Ser Leu Glu Val Asn Gly Asn Lys
 35 40 45

Val Arg Lys Lys Leu Met Ala Pro Asp Ile Ser Leu Thr Leu Asp Pro
 50 55 60

Gly Glu Ile Asp Leu Asp Gly Leu Asp Thr Pro Ser Glu Asn Ser Asn
 65 70 75 80

Glu Phe Glu Trp Glu Asp Asp Leu Pro Lys Pro Lys Thr Thr Glu Val
 85 90 95

Ile Arg Lys Gly Ser Ile Thr Glu Tyr Thr Ala Ala Glu Glu Lys Glu
 100 105 110

Asp Gly Arg Arg Trp Arg Met Phe Arg Ile Gly Glu Gln Asp His Gly
 115 120 125

Gly Tyr Tyr Gly Asp Gly Leu Asn Ala Ile Val Val Phe Ala Val Cys
 130 135 140

Phe Met Pro Glu Ser Ser Gln Pro Asn Tyr Arg Tyr Leu Met Asp Asn
 145 150 155 160

Leu Phe Lys Tyr Val Ile Gly Thr Leu Glu Leu Leu Val Ala Glu Asn
 165 170 175

Tyr Met Ile Val Tyr Leu Asn Gly Ala Thr Thr Arg Arg Lys Met Pro
180 185 190

Ser Leu Gly Trp Leu Arg Lys Cys Tyr Val His Pro Ser Trp Phe Ile
195 200 205

Arg Thr Leu Leu Ala Val Thr Arg Pro Phe Ile Ser Ser Lys Phe Ser
210 215 220

Gln Lys Ile Arg Tyr Val Phe Asn Leu Ala Glu Leu Ala Glu Leu Val
225 230 235 240

Pro Met Glu Tyr Val Gly Ile Pro Glu Cys Ile Lys Gln Val Gln Glu
245 250 255

Leu Asn Gly Lys Gln Asp Glu
260

<210> 20
<211> 274
<212> PRT
<213> Mus musculus

<400> 20

Met Glu Gly Val Glu Leu Lys Glu Glu Trp Gln Asp Glu Asp Phe Pro
1 5 10 15

Ile Pro Leu Pro Glu Asp Asp Ser Ile Glu Ala Asp Thr Leu Asp Gly
20 25 30

Thr Asp Pro Asp Arg Gln Pro Gly Ser Leu Glu Val Asn Gly Asn Lys
35 40 45

Val Arg Lys Lys Leu Met Ala Pro Asp Ile Ser Leu Thr Leu Asp Pro
50 55 60

Gly Glu Val Asp Leu Glu Gly Leu Asp Thr Pro Ser Glu Asn Ser Asp
65 70 75 80

Glu Phe Glu Trp Glu Asp Asp Leu Pro Lys Pro Lys Thr Thr Glu Val
85 90 95

Ile Arg Lys Gly Ser Ile Thr Glu Tyr Thr Ala Thr Glu Glu Lys Gly
100 105 110

Asp Gly Arg Arg Trp Arg Met Phe Arg Ile Gly Glu Gln Asp His Gly
115 120 125

Gly Tyr Tyr Gly Asp Gly Leu Asn Ala Ile Val Val Phe Ala Val Cys
 130 135 140

Phe Met Pro Glu Ser Gly Gln Pro Asn Tyr Arg Tyr Leu Met Asp Asn
 145 150 155 160

Leu Phe Lys Tyr Val Ile Gly Thr Leu Glu Leu Leu Val Ala Glu Asn
 165 170 175

Tyr Met Ile Ile Tyr Leu Asn Gly Ala Thr Thr Arg Arg Lys Met Pro
 180 185 190

Ser Leu Gly Trp Leu Arg Arg Cys Tyr Val His Pro Ser Trp Phe Ile
 195 200 205

Arg Thr Leu Leu Ala Val Thr Arg Pro Phe Ile Ser Ser Lys Phe Ser
 210 215 220

Gln Lys Ile Arg Tyr Val Phe Asn Leu Ala Glu Leu Ala Glu Leu Val
 225 230 235 240

Pro Met Glu Tyr Val Gly Ile Pro Glu Cys Ile Lys Gln Tyr Glu Glu
 245 250 255

Glu Lys Phe Lys Lys Arg Val Asp Gln Glu Pro Leu Asn Gly Lys Gln
 260 265 270

Glu Pro

<210> 21
 <211> 153
 <212> PRT
 <213> Drosophila melanogaster
 <400> 21

Tyr Thr Ala Ala Glu Glu Arg Arg Asp Ser Arg Asn Trp Gln Lys Ile
 1 5 10 15

Thr Leu Pro Asp Gly Arg Thr Gly Gly Tyr Gly Gly Gln Asn Ala Ile
 20 25 30

Val Ile Phe Cys Ala Cys His Leu Pro Asp Arg Ser Arg Ala Arg Tyr
 35 40 45

Ser Tyr Val Met Asp Asn Leu Phe Leu Tyr Val Val Lys Thr Leu Glu
 50 55 60

Gln Leu Val Thr Asp Asp Tyr Val Leu Ile Tyr Leu His Gly Gly Ser
 65 70 75 80

Asn Arg Arg Asn Val Pro Pro Phe Pro Trp Leu Lys Arg Cys Tyr Val
 85 90 95

His Pro Thr Phe Trp Ile Lys Ser Leu Val Trp Met Ala Arg Pro Phe
 100 105 110

Val Ser Thr Lys Phe Trp Arg Lys Leu Val Tyr Val Lys Ser Leu Glu
 115 120 125

Glu Leu Gly Met His Val Val Val Glu Lys Ala Ala Ile Pro Glu Lys
 130 135 140

Val Lys Gln Tyr Asp Ala Lys Arg His
 145 150

<210> 22
 <211> 13
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 22
 ccagctctca tgg 13

<210> 23
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 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 23
 gccgccacca ugg 13

<210> 24
 <211> 70
 <212> PRT
 <213> Mus musculus

<400> 24

Pro Ser Ser Asp Ala Glu Ser Ala Pro Ala Ser Ile Leu Phe Leu Leu
1 5 10 15

Gly Ser Glu Gly Pro Gly Ser Val Ser Asp Ala Gln Leu His Pro Gly
20 25 30

Arg Ala Arg Leu Cys Leu Pro Val Arg Arg Arg Gly Cys Leu Ser Cys
35 40 45

Arg Gly Val Ile Pro Ala Ser Ser Gln Cys Leu Phe Pro Ala Pro Met
50 55 60

Gly Thr Thr Glu Ala Thr
65 70

<210> 25

<211> 55

<212> PRT

<213> Homo sapiens

<400> 25

Ala Ser Phe His Gln Ala Pro Arg Leu Gly Thr Ile Glu Lys Cys Pro
1 5 10 15

Pro Leu Cys Pro Ser Asp Ser Ala Glu Ala Ala Ser Ala Thr Glu Ile
20 25 30

Ile Phe Trp Val Thr Arg Val Ser Arg Pro Leu Leu Phe Pro Ala Leu
35 40 45

Met Gly Thr Thr Glu Ala Thr
50 55

<210> 26

<211> 314

<212> PRT

<213> Homo sapiens

<400> 26

Met Glu Gly Val Glu Leu Lys Glu Glu Trp Gln Asp Glu Asp Phe Pro
1 5 10 15

Ile Pro Leu Pro Glu Asp Asp Ser Ile Glu Ala Asp Ile Leu Ala Ile
20 25 30

Thr Gly Pro Glu Asp Gln Pro Gly Ser Leu Glu Val Asn Gly Asn Lys
35 40 45

Val 50	Arg	Lys	Lys	Leu	Met	Ala 55	Pro	Asp	Ile	Ser	Leu 60	Thr	Leu	Asp	Pro
Ser 65	Asp	Gly	Ser	Val	Leu 70	Ser	Asp	Asp	Leu	Asp 75	Glu	Ser	Gly	Glu	Ile 80
Asp	Leu	Asp	Gly	Leu 85	Asp	Thr	Pro	Ser	Glu 90	Asn	Ser	Asn	Glu	Phe 95	Glu
Trp	Glu	Asp	Asp 100	Leu	Pro	Lys	Pro	Lys 105	Thr	Thr	Glu	Val	Ile 110	Arg	Lys
Gly	Ser	Ile 115	Thr	Glu	Tyr	Thr	Ala 120	Ala	Glu	Glu	Lys	Glu 125	Asp	Gly	Arg
Arg	Trp 130	Arg	Met	Phe	Arg	Ile 135	Gly	Glu	Gln	Asp	His 140	Arg	Val	Asp	Met
Lys 145	Ala	Ile	Glu	Pro	Tyr 150	Lys	Lys	Val	Ile	Ser 155	His	Gly	Gly	Tyr	Tyr 160
Gly	Asp	Gly	Leu	Asn 165	Ala	Ile	Val	Val	Phe 170	Ala	Val	Cys	Phe	Met 175	Pro
Glu	Ser	Ser	Gln 180	Pro	Asn	Tyr	Arg	Tyr 185	Leu	Met	Asp	Asn	Leu 190	Phe	Lys
Tyr	Val	Ile 195	Gly	Thr	Leu	Glu	Leu 200	Leu	Val	Ala	Glu	Asn 205	Tyr	Met	Ile
Val	Tyr 210	Leu	Asn	Gly	Ala	Thr 215	Thr	Arg	Arg	Lys	Met 220	Pro	Ser	Leu	Gly
Trp 225	Leu	Arg	Lys	Cys	Tyr 230	Gln	Gln	Ile	Asp	Arg 235	Arg	Leu	Arg	Lys	Asn 240
Leu	Lys	Ser	Leu	Ile 245	Ile	Val	His	Pro	Ser 250	Trp	Phe	Ile	Arg	Thr 255	Leu
Leu	Ala	Val	Thr 260	Arg	Pro	Phe	Ile 265	Ser	Ser	Lys	Phe	Ser	Gln 270	Lys	Ile

Arg Tyr Val Phe Asn Leu Ala Glu Leu Ala Glu Leu Val Pro Met Glu
 275 280 285

Tyr Val Gly Ile Pro Glu Cys Ile Lys Gln Val Asp Gln Glu Leu Asn
 290 295 300

Gly Lys Gln Asp Glu Pro Lys Asn Glu Gln
 305 310

<210> 27
 <211> 314
 <212> PRT
 <213> Mus musculus

<400> 27

Met Glu Gly Val Glu Leu Lys Glu Glu Trp Gln Asp Glu Asp Phe Pro
 1 5 10 15

Ile Pro Leu Pro Glu Asp Asp Ser Ile Glu Ala Asp Ile Leu Ala Ile
 20 25 30

Thr Gly Pro Glu Asp Gln Pro Gly Ser Leu Glu Val Asn Gly Asn Lys
 35 40 45

Val Arg Lys Lys Leu Met Ala Pro Asp Ile Ser Leu Thr Leu Asp Pro
 50 55 60

Ser Asp Gly Ser Val Leu Ser Asp Asp Leu Asp Glu Ser Gly Glu Ile
 65 70 75 80

Asp Leu Asp Gly Leu Asp Thr Pro Ser Glu Asn Ser Asn Glu Phe Glu
 85 90 95

Trp Glu Asp Asp Leu Pro Lys Pro Lys Thr Thr Glu Val Ile Arg Lys
 100 105 110

Gly Ser Ile Thr Glu Tyr Thr Ala Ala Glu Glu Lys Glu Asp Gly Arg
 115 120 125

Arg Trp Arg Met Phe Arg Ile Gly Glu Gln Asp His Arg Val Asp Met
 130 135 140

Lys Ala Ile Glu Pro Tyr Lys Lys Val Ile Ser His Gly Gly Tyr Tyr
 145 150 155 160

Gly Asp Gly Leu Asn Ala Ile Val Val Phe Ala Val Cys Phe Met Pro
 165 170 175

Glu Ser Ser Gln Pro Asn Tyr Arg Tyr Leu Met Asp Asn Leu Phe Lys
 180 185 190

Tyr Val Ile Gly Thr Leu Glu Leu Leu Val Ala Glu Asn Tyr Met Ile
 195 200 205

Val Tyr Leu Asn Gly Ala Thr Thr Arg Arg Lys Met Pro Ser Leu Gly
 210 215 220

Trp Leu Arg Lys Cys Tyr Gln Gln Ile Asp Arg Arg Leu Arg Lys Asn
 225 230 235 240

Leu Lys Ser Leu Ile Ile Val His Pro Ser Trp Phe Ile Arg Thr Leu
 245 250 255

Leu Ala Val Thr Arg Pro Phe Ile Ser Ser Lys Phe Ser Gln Lys Ile
 260 265 270

Arg Tyr Val Phe Asn Leu Ala Glu Leu Ala Glu Leu Val Pro Met Glu
 275 280 285

Tyr Val Gly Ile Pro Glu Cys Ile Lys Gln Val Asp Gln Glu Leu Asn
 290 295 300

Gly Lys Gln Asp Glu Pro Lys Asn Glu Gln
 305 310

<210> 28

<400> 28
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<210> 29

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 29

ctggaactac aggaatgtac c

21

<210>	30	
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<212>	DNA	
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<220>		
<223>	Synthetic	
<400>	30	
	tgtgttcacc tactacctac	20
<210>	31	
<211>	20	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Synthetic	
<400>	31	
	aaatgcatcc tgctgccttc	20
<210>	32	
<211>	20	
<212>	DNA	
<213>	Artificial Sequence	
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<223>	Synthetic	
<400>	32	
	caccagtgca gagaatcctt	20
<210>	33	
<211>	21	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Synthetic	
<400>	33	
	atgacaagca ctccagcctg a	21
<210>	34	
<211>	20	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Synthetic	
<400>	34	
	gccgtttgac gtgcattggt	20

<210> 35	
<211> 19	
<212> DNA	
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<220>	
<223> Synthetic	
<400> 35	
gactcctagt tgtctccct	19
<210> 36	
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